

Table 4-6
Quashnet River and Bogs Surface Water Ethylene Dibromide Concentrations
and Water Quality Parameters
May 2001 - April 2002

Location	Date Sampled	EDB ¹ Concentration (µg/L)	Temperature (°C)	Dissolved Oxygen (mg/L)	pH (std)	Specific Conductance (µS/cm)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)
36SW0001	05/31/01	ND	13.29	13.25	7.01	78	399	1.0
	06/29/01	ND	17.81	12.11	7.05	81	162	1.5
	07/25/01	ND	16.97	9.93	6.70	77	101	0.6
	08/29/01	ND	14.93	8.39	7.09	74	363	1.1
	09/28/01	ND	16.75	14.06	6.88	78	101	2.4
	10/25/01	ND	14.66	8.79	6.48	80	181	1.1
	11/26/01	ND	12.07	12.47	6.35	84	158	1.0
	12/28/01	ND	4.51	10.44	7.21	82	106	2.1
	01/30/02	ND	7.62	11.60	7.31	75	404	1.3
	03/28/02	ND	10.31	12.55	6.55	69	151	0.7
36SW0003	05/31/01	ND	15.15	12.37	6.91	80	332	5.1
	06/29/01	ND	17.90	11.20	6.70	82	132	0.9
	07/25/01	ND	16.15	14.01	6.49	75	120	0.9
	08/29/01	ND	15.56	10.85	6.81	79	306	0.7
	09/28/01	ND	16.70	12.20	6.57	90	178	4.2
	10/25/01	0.01	16.29	12.42	6.63	93	110	1.5
	11/26/01	0.011	12.28	12.56	6.45	84	133	1.0
	12/28/01	0.01 J	6.50	11.84	6.96	79	94.2	0.9
	01/30/02	ND	8.02	11.69	6.68	77	424	0.9
	03/28/02	ND	11.19	13.36	6.68	71	159	0.4
36SW0007	05/31/01	ND	11.11	10.86	6.68	52	381	0.5
	06/29/01	ND	15.13	10.53	6.43	55	187	5.3
	07/25/01	ND	12.98	9.96	5.76	43	191	1.1
	08/29/01	ND	13.18	10.40	6.61	51	364	13
	09/28/01	ND	16.68	10.00	6.22	54	231	4.3
	10/25/01	ND	17.11	9.82	6.21	54	202	14
	11/26/01	ND	10.56	10.18	5.89	50	197	7.0
	12/28/01	ND	4.70	11.67	7.06	54	126	7.6
	01/30/02	ND	8.29	10.37	6.20	55	457	2.2
	03/28/02	ND	11.72	11.29	6.15	59	173	1.6
36SW0010	05/03/01		12.39	11.81	6.20	52	226	3.8
	05/10/01		10.74	10.92	5.68	72	208	0.3
	05/17/01		10.15	10.24	5.65	78	223	0.3
	05/24/01		11.61	8.67	6.42	45	127	4.1
	05/31/01	ND	13.36	11.17	6.78	53	363	1.0
	05/31/01		11.58	9.43	6.43	56	154	25
	06/07/01		13.76	11.07	6.25	53	150	37
	06/14/01		12.65	9.51	6.19	54	267	25
	06/21/01		15.13	9.80	5.83	58	179	0.3
	06/28/01		12.80	9.59	6.59	55	277	15
	06/29/01	ND	14.19	11.58	6.31	55	181	3.1
	07/05/01		13.21	11.14	5.91	52	177	2.4
	07/12/01		12.70	10.00	6.28	54	432	0.6
	07/19/01		12.12	8.64	6.17	55	196	4.2
	07/25/01	ND	15.29	12.33	5.99	55	152	1.1
	07/26/01		13.54	7.50	5.89	56	135	2.5
	08/02/01		13.31	10.01	5.58	56	396	8.1
	08/09/01		13.59	8.92	5.91	55	87.3	6.4
	08/16/01		12.85	10.12	6.04	55	115	10
	08/23/01		15.80	12.34	5.99	53	239	2.9
	08/29/01	ND	14.10	11.18	6.75	56	332	24
	08/30/01		13.54	10.90	5.95	54	229	0.5
	09/06/01		12.79	10.60	6.20	61	242	5.1
	09/20/01		12.63	8.67	6.11	57	216	67
	09/27/01		12.00	10.97	6.10	57	344	2.2
	09/28/01	ND	13.72	10.68	6.11	55	235	2.2
	10/04/01		12.22	11.58	6.09	60	374	0.5

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Location	Date Sampled	EDB ¹ Concentration (µg/L)	Temperature (°C)	Dissolved Oxygen (mg/L)	pH (std)	Specific Conductance (µS/cm)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)
36SW0010	10/12/01		11.35	12.03	6.10	55	227	2.1
	10/18/01		8.88	10.46	7.11	54	365	0.7
	10/25/01		12.08	9.36	6.21	57	219	4.9
	10/25/01	ND	14.92	11.58	6.36	59	175	1.3
	11/01/01		11.52	11.55	6.49	60	433	0.2
	11/08/01		9.18	11.12	6.69	61	386	0.4
	11/15/01		10.35	11.84	5.90	61	378	1.1
	11/23/01		8.79	12.05	6.55	56	257	2.4
	11/26/01	ND	11.47	11.29	6.15	67	177	0.9
	11/29/01		9.80	10.41	6.02	62	407	0.8
	12/06/01		10.48	10.99	6.12	60	298	0.5
	12/13/01		9.77	10.23	6.64	63	188	0.9
	12/20/01		8.87	11.06	6.70	64	174	0.3
	12/27/01		7.05	11.10	6.73	65	147	0.2
	12/28/01	ND	6.88	12.10	6.98	60	115	0.1
	01/03/02		7.36	12.04	5.83	60	396	0.7
	01/10/02		8.04	12.11	6.12	61	185	0.3
	01/17/02		7.09	10.93	5.99	60	194	6.2
	01/24/02		8.86	9.78	6.27	67	170	3.2
	01/30/02	ND	8.95	9.98	6.21	67	437	0.6
	01/31/02		8.44	9.91	6.45	70	418	8.8
	02/07/02		8.33	10.66	6.52	73	403	13
	02/28/02		10.32	14.00	6.71	73	135	0.5
	03/07/02		7.93	11.75	6.32	57	122	6.3
	03/28/02		9.25	12.50	5.93	56	170	2.7
	03/28/02	ND	13.31	13.86	6.23	58	160	0.2
	04/04/02		10.93	13.45	6.48	59	218	1.2
	04/11/02		10.45	13.15	6.42	61	442	0.4
	04/18/02		12.12	12.75	6.21	62	500	0.4
	04/25/02		13.51	12.85	6.14	56	184	2.1
36SW0015	05/31/01	ND	17.17	10.09	6.75	89	357	1.4
	06/29/01	ND	14.24	8.84	6.19	103	194	0.1
	07/25/01	ND	21.91	8.88	6.05	92	149	1.2
	08/29/01	ND	19.57	8.46	6.42	89	367	1.9
	09/28/01	ND	18.95	9.00	6.20	90	227	4.7
	10/25/01	ND	16.81	9.54	6.11	94	180	2.9
	11/26/01	ND	13.19	9.38	5.98	96	169	1.6
	12/28/01	0.007 J	8.62	10.77	6.71	100	146	0.2
	01/30/02	ND	8.04	8.12	6.03	96	449	1.0
	03/28/02	ND	11.54	11.33	6.01	85	180	1.2
36SW0019	05/31/01	0.054	13.17	13.32	7.13	88	375	19
	06/29/01	0.062	16.95	11.24	7.12	80	80.6	37
	07/25/01	0.07	17.69	11.36	6.54	116	121	43
	08/29/01	0.067	16.49	5.83	6.87	116	221	30
	09/28/01	0.029	18.54	7.42	6.99	107	205	31
	10/25/01	0.018	16.53	8.59	6.63	98	64.4	10
	11/26/01	0.074	13.20	14.03	6.60	96	84	6.1
	12/28/01	0.011	2.05	9.28	7.13	89	119	11
	01/30/02	NS	NS	NS	NS	NS	NS	NS
	02/28/02	NS	NS	NS	NS	NS	NS	NS
	03/28/02	NS	NS	NS	NS	NS	NS	NS
	04/25/02	NS	NS	NS	NS	NS	NS	NS
36SW0031	05/31/01	ND	12.64	12.80	6.94	79	423	1.2
36SW0032	05/31/01	ND	10.41	8.72	7.61	61	365	10
36SW0036	05/31/01	ND	14.92	9.74	7.12	65	304	8.7
	06/29/01	ND	21.57	9.27	7.16	59	86.5	26
	07/25/01	ND	23.50	3.06	6.42	80	30.0	32

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36SW0036	08/29/01	ND	20.74	8.52	7.14	83	255	12
	09/28/01	ND	17.62	8.21	6.78	82	147	22
	10/25/01	ND	18.61	3.30	6.46	98	-32.1	40
	11/26/01	ND	12.44	3.29	6.41	107	34.8	11
	12/28/01	ND	1.32	7.34	6.94	112	91.1	8.5
	01/30/02	ND	7.57	7.95	6.74	72	435	2.2
	02/28/02	ND	5.52	10.03	6.85	79	157	1.6
	03/28/02	ND	12.07	10.69	6.55	76	160	0.9
36SW0200	05/31/01	ND	13.10	10.52	7.12	82	322	5.2
	06/29/01	ND	17.69	11.87	6.98	83	113	9.5
	07/25/01	ND	17.24	12.36	6.45	78	104	1.3
	08/29/01	ND	14.96	10.55	7.10	77	281	2.2
	09/28/01	ND	17.02	12.30	6.60	82	175	22
	10/25/01	ND	16.56	9.07	6.56	87	81.9	6.1
	11/26/01	ND	12.43	12.13	6.41	83	120	2
	12/28/01	ND	4.03	7.61	6.85	93	103	3.2
	01/30/02	ND	7.98	11.37	6.70	78	425	1.3
	03/28/02	ND	11.45	13.37	6.65	71	155	0.4
	05/31/01	ND	14.89	12.06	6.82	79	347	0.4
	06/29/01	ND	16.94	14.62	6.88	84	145	26.8
36SW0201	07/25/01	ND	17.66	7.23	6.28	84	95.1	2.1
	08/29/01	ND	18.15	8.72	6.81	79	324	5.5
	09/28/01	ND	17.88	13.12	6.56	80	190	5.0
	10/25/01	ND	18.08	13.92	6.51	83	139	1.9
	11/26/01	ND	13.24	13.57	6.41	80	152	2.3
	12/28/01	ND	3.73	10.27	6.78	89	118	19
	01/30/02	ND	7.65	7.70	6.50	88	432	1
	03/28/02	ND	13.52	16.32	6.58	75	166	13
	05/31/01		11.11	10.86	6.68	52	381	0.5
	06/29/01		15.80	10.11	6.40	70	161	8.0
36SW0221	07/25/01		17.30	9.18	6.05	67	138	4.1
	08/29/01		14.78	11.45	6.65	70	337	13
	09/28/01		13.48	10.84	6.04	74	233	4.1
	10/25/01		NM	NM	NM	NM	NM	NM
	11/26/01		11.34	9.84	6.19	78	173	0.7
	12/28/01		8.78	10.77	6.93	76	117	0.1
	01/30/02		9.59	10.10	6.33	77	426	0.3
	03/28/02		13.57	11.37	6.20	75	164	0.5
	05/03/01		11.04	10.39	6.43	70	203	0.3
	05/10/01		10.48	10.41	6.09	91	188	0.5
36SW0300	05/17/01		10.84	7.54	5.86	316	219	3.4
	05/24/01		10.94	9.15	6.55	63	110	2.9
	05/31/01	ND	11.27	10.40	7.07	70	337	0.0
	05/31/01		10.74	9.48	6.46	73	183	-0.3
	06/07/01		11.58	10.13	6.39	70	112	13.1
	06/14/01		11.37	9.48	6.72	71	272	6.1
	06/21/01		11.87	9.16	6.16	71	155	0.0
	06/28/01		11.40	9.67	6.85	72	254	1.0
	06/29/01	ND	11.72	9.83	6.65	74	164	1.1
	07/05/01		11.51	9.48	6.32	70	171	0.6
	07/12/01		11.40	9.71	6.65	72	397	0.8
	07/19/01		11.19	8.90	6.49	74	237	0.3
	07/25/01	ND	12.17	9.65	6.42	64	116	0.0
	07/26/01		11.61	8.95	6.40	72	145	1.1
	08/02/01		11.68	8.94	5.91	74	381	0.2
	08/09/01		11.74	9.73	6.51	73	55.3	0.1
	08/16/01		11.62	9.50	6.48	73	149	0.3

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36SW0300	08/23/01		12.31	9.65	5.93	64	296	3.0
	08/29/01	ND	12.25	9.94	6.82	65	299	0.7
	08/30/01		11.70	9.73	6.50	72	211	0.2
	09/06/01		11.67	9.31	6.41	69	234	13
	09/20/01		11.51	8.93	6.52	73	214	42
	09/27/01		11.34	10.01	6.22	73	360	0.5
	09/28/01	ND	11.73	9.76	6.31	73	219	1.0
	10/04/01		11.48	10.17	6.62	73	376	0.4
	10/12/01		11.19	10.46	6.52	73	248	0.1
	10/18/01		10.49	10.02	7.30	72	347	0.4
	10/25/01		11.22	8.48	6.55	73	229	1.3
	10/25/01	ND	12.06	9.37	6.54	73	158	0.8
	11/01/01		10.89	9.85	6.60	75	425	0.1
	11/08/01		10.29	9.71	6.82	74	399	0
	11/15/01		10.59	10.17	6.12	73	368	0.3
	11/23/01		10.15	10.29	6.64	73	259	1.7
	11/26/01	ND	10.86	10.07	6.34	76	154	0.5
	11/29/01		10.32	9.72	6.25	73	395	0.3
	12/06/01		10.57	9.42	6.33	67	331	0.2
	12/13/01		10.27	9.20	6.85	76	204	0.1
	12/20/01		9.68	9.98	6.73	72	192	0.1
	12/27/01		8.76	10.15	6.95	72	142	0
	12/28/01	ND	8.83	10.52	7.01	72	3.1	0
	01/03/02		9.28	10.35	6.10	75	391	0.1
	01/10/02		8.81	11.02	6.22	69	194	0.1
	01/17/02		9.38	10.04	6.25	74	191	0
	01/24/02		9.65	9.42	6.22	73	189	2
	01/30/02	ND	8.86	9.20	6.36	68	438	0.3
	01/31/02		9.03	9.92	6.47	74	404	1.3
	02/07/02		7.31	11.19	6.58	73	397	2.2
	02/28/02		9.79	11.42	6.62	65	139	5.1
	03/07/02		9.54	10.20	6.64	75	113	0.7
	03/14/02		9.90	9.95	7.26	78	425	1.9
	03/21/02		9.75	9.80	7.37	78	420	2.1
	03/28/02		9.88	10.25	6.20	75	183	0.5
	03/28/02	ND	10.80	10.38	6.36	75	159	0.9
	04/04/02		10.15	10.89	6.59	73	227	0.1
	04/11/02		10.18	10.20	6.51	78	431	0.5
	04/18/02		10.85	10.47	6.45	76	485	0.6
	04/25/02		11.46	10.73	6.25	72	194	0.2
36SW0301	05/31/01	ND	12.69	10.30	6.89	77	345	2.0
	06/29/01	ND	13.34	7.08	6.51	79	170	2.7
	07/25/01	ND	12.96	8.20	6.09	69	143	14
	08/29/01	ND	14.53	10.65	6.74	61	311	15
	09/28/01	ND	14.26	10.92	6.39	62	215	11
	10/25/01	ND	14.85	13.14	6.50	63	168	13
	11/26/01	ND	11.60	11.55	6.29	67	156	0.5
	12/28/01	ND	6.90	11.86	6.97	65	115	0.3
	01/30/02	ND	8.88	9.28	6.27	67	444	0.8
	03/28/02	ND	13.01	16.27	6.39	64	152	6.2
36SW0302	05/31/01		11.70	12.52	7.17	68	337	0
	06/29/01		12.40	10.25	6.82	72	145	0.6
	07/25/01		14.31	8.94	6.49	46	94.7	8.8
	08/29/01		13.27	8.57	6.85	66	301	10
	09/28/01		13.12	9.71	6.66	71	193	17
	10/25/01		13.13	9.52	6.57	75	146	12
	11/26/01		11.29	10.90	6.42	79	155	9.6

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Location	Date Sampled	EDB ¹ Concentration ($\mu\text{g/L}$)	Temperature ($^{\circ}\text{C}$)	Dissolved Oxygen (mg/L)	pH (std)	Specific Conductance ($\mu\text{S/cm}$)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)
36SW0302	12/28/01		7.63	10.61	6.97	73	99	5.8
	01/30/02		9.17	9.28	6.51	76	427	1.5
	03/28/02		12.59	15.11	6.50	73	166	1.4
36SW0303	01/30/02	ND	8.02	11.49	6.61	71	422	3.1
	03/28/02	ND	12.71	11.67	6.69	62	158	7.4
36SW4188	05/31/01	0.016	14.17	4.01	6.93	88	206	42
	06/29/01	0.190	12.40	5.08	6.93	101	72.6	3.6
	07/25/01	0.168	20.56	11.56	6.63	98	33.6	26
	08/29/01	0.043	12.04	1.28	6.86	100	174	7.6
	09/28/01	ND	18.20	9.04	6.89	94	55.9	12
	10/25/01	ND	16.17	3.14	6.37	105	-19.9	36
	11/26/01	ND	12.52	11.82	6.70	99	44.9	9
	12/28/01	ND	3.37	5.07	6.96	102	43.1	13
	01/30/02	NS	NS	NS	NS	NS	NS	NS
	02/28/02	NS	NS	NS	NS	NS	NS	NS
	03/28/02	NS	NS	NS	NS	NS	NS	NS
	04/25/02	NS	NS	NS	NS	NS	NS	NS

Data Sources: Jacobs, November 2001, Site Environmental Evaluation (SEE) database and AFCEE, 08 January and 13 September 2002, MMR-AFCEE Data Warehouse.

Notes:

The accuracy of the field parameter instrument readings is as follows: temperature (+/- 0.15%), specific conductance (+/- 0.5% of reading plus 1 $\mu\text{S/cm}$), dissolved oxygen (for instrument readings 0-20 mg/L, +/- 0.2 mg/L and for instrument readings 20-50 mg

blank cells = No sample was scheduled to be collected.

¹ = EDB Risk-Based Concentration (RBC) = 6.5 $\mu\text{g/L}$, Hazard-Based Concentration (HBC) = 61 $\mu\text{g/L}$, and ecological benchmark = 31 $\mu\text{g/L}$ (AFCEE 2001b)

** = Water level was too low for parameters to be measured.

J = estimated concentration

$^{\circ}\text{C}$ = degrees Celsius

NS = not sampled due flooding of the bogs

EDB = ethylene dibromide

NTU = nephelometric turbidity units

ND = nondetect

std = standard units

mg/L = milligrams per liter

$\mu\text{g/L}$ = micrograms per liter

mV = millivolts

$\mu\text{S/cm}$ = microsiemens per centimeter

NM = not measured due to low water levels